









FIG. 3

1:1:1 Overetch 05				+ N: -	AlCu	Copper	+ _		
T) Step 02 Step 02 Step 02 Step 02 Step 07 Ste	Main etch chambe	-	•	AICu Bulk	Endpoint	Residue 1:	1:1 Overetch		
T) 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 0.00		Step 01	Step 02	Step 03	Step 04	Step 05	Step 06	Step 07	Step 08
W) 0 360 360 360 360 360 360 360 360 360 0 W) 0 0 100 225 225 100 0 40.0 40.0 40.0 40.0 40.0 50.0 50.0 0.0 40.0 40.0 40.0 40.0 40.0 50.0 50.0 0.0 0.0 0.0 0.0 0.0 20.0 0.0 0.0 0.0 10.0 10.0 10.0 10.0 10.0 0.0 Stabl Stabl Time EndPt Time Time Time 30s 24s 50s 5s 50s 10s 1 14 14 10s 10s 1 0 0 0 0 0	Pressure (mT)	0.00	10.00	10.00	10.00	10.00	10.00	0.00	00.0
W) 0 0 100 225 225 100 0 N/A N/A N/A N/A N/A N/A N/A N/A 40.0 40.0 40.0 40.0 50.0 50.0 50.0 0.0 40.0 40.0 40.0 40.0 50.0 50.0 0.0 0.0 0.0 0.0 0.0 0.0 20.0 20.0 0.0 Stabl Stabl Time EndPt Time Time Time 30s 30s 24s 50s 5s 50s 10s 1 1 1 1 1 1 1 1 262 nm 262 nm 30s 24s 262 nm 30s	RF-Top (W)	o	0	360	360	360	360	0	0
N/A N/A N/A N/A N/A N/A N/A 40.0 40.0 40.0 40.0 50.0 50.0 0.0 40.0 40.0 40.0 30.0 50.0 0.0 0.0 0.0 0.0 0.0 0.0 20.0 0.0 0.0 0.0 10.0 10.0 10.0 10.0 0.0 0.0 Stabil Stabil Time Time Time Time Time 30s 30s 24s 50s 5s 50s 10s 14 14 14 14 14 14 14 14 10	RF-Bottom (W)	0	0	100	225	225	1001	0	0
40.0 40.0 40.0 40.0 50.0 50.0 0.0 40.0 40.0 40.0 40.0 30.0 30.0 0.0 0.0 0.0 0.0 0.0 20.0 0.0) 0.0 10.0 10.0 10.0 0.0 Stabil Stabil Time Time Time Time 30s 30s 24s 50s 5s 50s 10s 10 1 14 14 1 1 1 10 1 0 0 0 0 0 0 0	Gap (cm)	N/A	A/A	A/A	A/N	A/N	N/A	N/A	N/A
40.0 40.0 40.0 40.0 40.0 30.0 30.0 0.0 10 0.0 0.0 0.0 0.0 0.0 0.0 Stabl 10.0 10.0 10.0 10.0 0.0 Stabl Stabl Time Time Time Time 30s 30s 24s 50s 5s 50s 10s 10 14 14 14 10s 10s 10s 10s 10 10 10 10 10 10s	BCI3 (sccm)	40.0	40.0	40.0	40.0	50.0	50.0	0.0	0.0
F) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 F) 0.0 10.0 10.0 10.0 10.0 0.0 Stabil Stabil Time Time Time Time 30s 30s 24s 50s 5s 50s 10s 10s 14 14 10s 10s 10s 10s 10s 10s 10s 2 10s	Cl2 (sccm)	40.0	40.0	40.0	40.0	30.0	30.0	0.0	0.0
0.0 10.0 10.0 10.0 10.0 0.0 Stabl Stabl Time EndPt Time Time Time 30s 30s 24s 50s 5s 50s 10s 10 262 nm 14	SF6 (sccm)	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
Stabil Stabil Time Time Time 30s 30s 24s 50s 50s 10s 6 262 nm 14	He clamp (T)	0.0	10.0	10.01	10.0	10.0	10.0	0.0	0.0
30s 30s 24s 50s 5s 50s 10s 10s 262 nm 262 nm 14 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Completion	Stabil	Stabi	Time	≣ndPt	Time	Time	Time	PULL
262	Time	30s	30s	248	50s	55	508	10s	S
	Channel				262 nm				
	Delay (sec)				14				
	Norm (sec)				2				
	Norm value				0				
	Trigger (%)				06				

20.0°C	0.0°C	
Electrode Temp	Chamber Temp	

FIG. 4